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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,480	12/26/2001	Shinya Satou	381NP/50378	4438
23911	7590 08/27/2003			
CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300			EXAMINER	
			FERGUSON, MARISSA L	
WASHINGIC	N, DC 20044-4300		ART UNIT PAPER NUMBER	
			2854	
			DATE MAILED: 08/27/2003	•

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	
\$ >	Office Astion Occurrence	09/936,480	SATOU ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Marissa L Ferguson	2854	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address	
THE ! - Exter after - If the - If NO - Failui - Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply a period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron cause the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communicatio ED (35 U.S.C. § 133).	on.
1)🖾	Responsive to communication(s) filed on 31 L	December 2002		
2a) □	, , ,	is action is non-final.		
3)	Since this application is in condition for allower	ance except for formal matters, p		is
Dispositi	closed in accordance with the practice under on of Claims	Ex paπe Quayle, 1935 C.D. 11,	453 O.G. 213.	
·	Claim(s) 1-10 is/are pending in the application).		
-	4a) Of the above claim(s) is/are withdraw			
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) <u>1-10</u> is/are rejected.		•	
7)	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	r election requirement.		
	The specification is objected to by the Examine	r.		
10)	The drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the Exa	aminer.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
11) 🗌 .	The proposed drawing correction filed on	_ is: a)□ approved b)□ disappr	roved by the Examiner.	
	If approved, corrected drawings are required in rep	oly to this Office action.		
12) 🗌 -	The oath or declaration is objected to by the Ex	aminer.		
Priority u	ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a)-(d) or (f).	•
a)[☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority documents			
·-·* s	3. Copies of the certified copies of the prior application from the International Busee the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		·
14) 🗌 A	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119	(e) (to a provisional applicat	lion).
) ☐ The translation of the foreign language pro Acknowledgment is made of a claim for domest	· · · · · · · · · · · · · · · · · · ·		
Attachmen	t(s)			
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>8</u>	5) Notice of Information	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)	
J.S. Patent and T	rademark Office			

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`DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Kurio (JP 11-14482).

Regarding claim 1, Kurio teaches a substrate (101), a diaphragm (111) formed on a substrate, a silicon oxide film (103) for sealing and a semiconductor pressure sensor characterized in that a polysilicon film (104b) is provided to cover part or all of a silicon oxide film.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurio (JP 11-14482).

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Regarding claims 2-4, with respect to the thickness and the distance, it obvious that Kurio teaches a thickness of a polysilicon film and/or a distance of a covered part from a filling hole. In this case, it would have been obvious to provide whatever specific thickness and distance desired including that as claimed in Kurio for the purpose of avoiding deformation. It has been held that where general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

3. Claims 5-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurio (JP 11-14482) in view of Mitani et al. (US 5,544,529).

Regarding claim 5, Kurio teaches the a substrate (101), a diaphragm (111) formed on a substrate, a silicon oxide film for sealing (103) and a semiconductor pressure sensor characterized in that a polysilicon film (104b) is provided to cover part or all of a silicon oxide film and a detector providing an input with a correction circuit (233 and figure 13). However he does not explicitly disclose a package enclosing a correction circuit and an intake tube used for introducing an external pressure. Mitani et al. teaches a pressure sensor that discloses a package enclosing a correction circuit (30) and an intake tube used for introducing an external pressure (1) used for detecting a pressure.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention taught by Kurio to include

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the elements as taught by for Mitani et al., since Mitani et al. uses a pressure sensitive element as for detecting an atmospheric pressure.

Regarding claims 6-8, with respect to the thickness and the distance. Kurio does not teach the claimed thickness of the polysilicon film and/or a distance of the covering part from the filling hole. In this case, to provide whatever specific thickness and distance desired including that as claimed in Kurio for the purpose of avoiding deformation. It has been held that where general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Regarding claim 9, Kurio teaches the invention with the exception of output terminals comprising a pad on a circuit connected by a metal wire. Mitani et al. teaches output terminals (29,39) comprising a pad on a circuit connected by a metal wire (Column 5, Lines 42-47 and Figure 4) used for electrical connections. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the invention taught by Kurio to include the terminals and pads as taught by for Mitani et al., since Mitani et al. uses the members for electrically connecting the apparatus.

Regarding claim 10, Kurio teaches the invention with the exception of providing a gap between a diaphragm and a substrate.

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R sponse to Arguments

4. Applicant's arguments with respect to claims 1-9 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marissa L. Ferguson whose telephone number is (703) 305-3194. The examiner can normally be reached on (M-T) 6:30am-4:00pm and every other (F) 7:30am-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Hirshfeld can be reached on (703) 305-6619. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

Marissa L Ferguson Examiner Art Unit 2854

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